

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
NIH209.001C1APPLICATION NO.
10/677,980INFORMATION DISCLOSURE STATEMENT
BY APPLICANT

USE SEVERAL SHEETS IF NECESSARY)

APPLICANT
Mayer et al.FILING DATE
October 2, 2003GROUP
~~1614~~

1645

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
<i>[initials]</i>	1.	US 5,849,306	12/15/1998	Sim et al.	<i>[initials]</i>	<i>[initials]</i>	
<i>[initials]</i>	2.	US 5,993,827	11/30/1999	Sim et al.	<i>[initials]</i>	<i>[initials]</i>	
<i>[initials]</i>	3.	US 6,392,026	5/21/2002	Sim et al.	<i>[initials]</i>	<i>[initials]</i>	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
<i>[initials]</i>	4.	Adams, J.H. et al. 1990 "The duffy receptor family of <i>Plasmodium knowlesi</i> is located within the micronemes of invasive malaria merozoites," <i>Cell</i> 63:142-153.
<i>[initials]</i>	5.	Adams, J.H. et al. 1992 "A family of erythrocyte binding proteins of malaria parasites," <i>PNAS USA</i> 89:7085-7089.
	6.	Adams, J.H. et al. 2001 "An expanding <i>ebf</i> family of <i>Plasmodium falciparum</i> " <i>Trends Parasitol</i> 17:297-9.
	7.	Aikawa, M. et al. 1978 "Erythrocyte entry by malarial parasites," <i>J Cell Biol</i> 77:72-82.
	8.	Anstee, D.J. et al. 1984 "Two individuals with elliptocytic red cells apparently lack three minor erythrocyte membrane sialoglycoproteins," <i>Biochem J</i> 218:615-619.
	9.	Becker, S.I. et al. 1998 "Protection of mice against <i>Plasmodium yoelii</i> sporozoite challenge with <i>P. yoelii</i> merozoite surface protein 1 DNA vaccines," <i>Infect Immun</i> 66:3457-3461.
	10.	Booth, P.B. et al. 1982 "Red cell antigen, serum protein and red cell enzyme polymorphisms in Karkar islanders and inhabitants of the adjacent North Coast of New Guinea," <i>Hum Hered</i> 32:385-403.
	11.	Camus, D. et al. 1985 "A <i>Plasmodium falciparum</i> antigen that binds to host erythrocytes and merozoites," <i>Science</i> 230:553-556.
	12.	Chitnis, C.E. et al. 1994 "Identification of the erythrocyte binding domains of <i>Plasmodium vivax</i> and <i>Plasmodium knowlesi</i> proteins involved in erythrocyte invasion," <i>J Exp Med</i> 180:497-506.
	13.	Colin, Y. et al. 1995 "Gerbich blood groups and minor glycophorins" in <i>Blood Cell Biochemistry</i> , Vol. 6, eds. Cartron, J. P. & Rouger, P. (Plenum, New York), pp. 331-350.
	14.	Dolan, S.A. et al. 1990 "Evidence for a switching mechanism in the invasion of erythrocytes by <i>Plasmodium falciparum</i> ," <i>J Clin Invest</i> 86:618-624.
<i>[initials]</i>	15.	Dvorak, J.A. et al. 1975 "Invasion of erythrocytes by malaria merozoites," <i>Science</i> 187:748-750.

EXAMINER

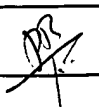


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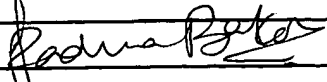
DATE CONSIDERED

1/16/06

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)		APPLICANT Mayer et al.	
		FILING DATE October 2, 2003	GROUP 1645

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
	16. Gallinski, M.R. et al. 1992 "A reticulocyte-binding protein complex of <i>Plasmodium vivax</i> merozoites," <i>Cell</i> 69:1213-1226.
	17. Haynes, J.D. et al. 1988 "Receptor-like specificity of a <i>Plasmodium knowlesi</i> malarial protein that binds to duffy antigen ligands on erythrocytes," <i>J Exp Med</i> 167:1873-1881.
	18. Judd, W.J. 1994 "Procedure IX-D Frozen RBCs - liquid nitrogen preservation & recovery," in <i>Methods in Immunohematology</i> , ed. Judd, W. J. (Montgomery Scientific, Durham, NC), pp. 188-190.
	19. Kaneko, O. et al. 1999 " <i>Plasmodium falciparum</i> : invasion of <i>Aotus</i> monkey red blood cells and adaptation to <i>Aotus</i> monkeys," <i>Exp Parasitol</i> 93:116-119.
	20. Kaneko, O. et al. 2000 "Disruption of the C-terminal region of EBA-175 in the Dd2/Nm clone of <i>Plasmodium falciparum</i> does not affect erythrocyte invasion," <i>Mol Biochem Parasitol</i> 110:135-146.
	21. Mallory, D. 1993 "Freezing and recovering rare RBCs using glycerol" in <i>Immunohematology Methods and Procedures</i> First Edition, Mallory D. ed. (American Red Cross, National Reference Laboratory, Rockville, MD), pp. 125-1-125-2.
	22. Mayer, D.C.G. et al. 2001 "Characterization of a <i>Plasmodium falciparum</i> erythrocyte-binding protein paralogous to EBA-175" <i>PNAS USA</i> 98:5222-5227.
	23. Miller, L.H. et al. 1973 "Influence of erythrocyte membrane components on malaria merozoite invasion," <i>J Exp Med</i> 138:1597-1601.
	24. Miller, L.H. et al. 1976 "The resistance factor to <i>Plasmodium vivax</i> in blacks," <i>N Engl J Med</i> 295:302-304.
	25. Miller, L.H. et al. 1979 "Interaction between cytochalasin B-treated malarial parasites and erythrocytes," <i>J Exp Med</i> 149:172-184.
	26. Pasvol, G. et al. 1984 "Glycophorin C and the invasion of red cells by <i>Plasmodium falciparum</i> ," <i>The Lancet</i> 1:907-908.
	27. Ranjan, A. et al. 1999 "Mapping regions containing binding residues within functional domains of <i>Plasmodium vivax</i> and <i>Plasmodium knowlesi</i> erythrocyte-binding proteins," <i>PNAS USA</i> 96:14067-14072.
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	31. Sim, B.K.L. et al. 1990 "Primary structure of the 175K <i>Plasmodium falciparum</i> erythrocyte binding antigen and identification of a peptide which elicits antibodies that inhibit malaria merozoite invasion," <i>J Cell Biol</i> 111:1877-1884.
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EXAMINER 	DATE CONSIDERED 11/16/06
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	FILING DATE October 2, 2003	GROUP 1614 <i>WLS</i>

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
<i>JS</i>	33. Sim, B.K.L. et al. 1994 "Receptor and ligand domains for invasion of erythrocytes by <i>Plasmodium falciparum</i> ," <i>Science</i> 264:1941-1944.
<i>JS</i>	34. Su, X. et al. 1999 "A genetic map and recombination parameters of the human malaria parasite <i>Plasmodium falciparum</i> ," <i>Science</i> 286:1351-1353.

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EXAMINER <i>Deanna Becker</i>	DATE CONSIDERED <i>11/16/05</i>
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STATEMENT BY APPLICANT (Multiple sheets used when necessary)		Art Unit	1645
		Examiner	Baskar, Padmavathi
		Attorney Docket No.	NIH209.001C1
SHEET 1 OF 1			

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	1.	US 20020127241 A1	09/12/2002	Narum, et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind Code Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T ¹
	2.	WO 02/11756	02/14/2002	Entremed, Inc.		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ¹

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Examiner Signature		Date Considered	1/16/06
*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			

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